16. The improvement according to claim 14, wherein said passageway is triangular in configuration.

17. The improvement according to claim 13, wherein said passageway is configured with four corners.

18. The improvement according to claim 14, wherein said passageway is configured with four corners.

19. The improvement according to claim 17, wherein said passageway is rectangular in configuration.

20. The improvement according to claim 18, wherein said passageway is rectangular in configuration.

21. The improvement according to claim 13, further comprising a screen in said detection beam path for suppressing diffraction phenomena.

22. The improvement according to claim 21, wherein said screen is a variable screen.

23. The improvement according to claim 21, wherein said screen is located after said pinhole occluder in said detection beam path.

24. The improvement according to claim 21, wherein said screen is located before said pinhole occluder in said detection beam path.

25. The improvement according to claim 13, wherein focusing optics and dispersion means for spectrally fanning out said light beam are located after said pinhole occluder.

26. The improvement according to claim 25, wherein said dispersion means is a prism.

27. The improvement according to claim 25, wherein said focusing optics are located in front of and behind said dispersion means.

28. The improvement according to claim 27, wherein said focusing optics comprise lens arrangements.

29. The improvement according to claim 28, wherein said light beam is focused into a gap/detector arrangement by said focusing optics.

30. The improvement according to claim 29, wherein said gap/detector arrangement comprises color detection gaps arranged and aligned such that diffraction phenomena can be screened out at said detection gap.